•	Application No.	Applicant(s)	
Notice of Allowability	10/617,908	LEE ET AL.	
	Examiner	Art Unit	
	Tai Van Nguyen	3729	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in b) or other appropriate commu RIGHTS. This application is s	this application. If not included inication will be mailed in due course.	
1. \boxtimes This communication is responsive to $\underline{11/13/2006}$ and $\underline{1/2/2006}$	<u> 2007</u> .		
2. X The allowed claim(s) is/are 1-15 and 21-32.			
3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the:		or (f).	·
1. Certified copies of the priority documents hav	•		
2. Certified copies of the priority documents hav			ni.
3. Copies of the certified copies of the priority do	ocuments have been received	in this national stage application from	n the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirement	nts
4. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give			OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ıst be submitted.		
(a) I including changes required by the Notice of Draftsper	rson's Patent Drawing Review	ı (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_·		
(b) including changes required by the attached Examiner Paper No./Mail Date	r's Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the header according to 37 CF	ne drawings in the front (not the back) o R 1.121(d).	f
 DEPOSIT OF and/or INFORMATION about the deport attached Examiner's comment regarding REQUIREMENT 			
·		•	
	•		
•		•	
Attachment(s)	_		
1. Notice of References Cited (PTO-892)		formal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), Mail Date	
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's	Statement of Reasons for Allowance	
of Biological Material	9. Other	e .	
		•	

Application/Control Number: 10/617,908

Art Unit: 3729

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Domonic M. Kotab on 1/2/2007.

In the claims:

Claims 16-20 and 33-38 have been cancelled.

Reasons for Allowance:

The following is an examiner's statement of reasons for allowance: the prior art does not teach all of the limitations of the claimed invention including:

In claim 1: - protective layer also covering facing ends of the leads; removing material from at least one side area of the wafer stack using the protective layer as a mask; removing the protective layer; and

processing a portion of the bias layer below the gap for reducing a magnetic moment of the bias layer in the portion of the bias layer below the gap for forming a sensor in which magnetic moments of end portions of the free layer are

Application/Control Number: 10/617,908

Art Unit: 3729

pimped by magnetic moments of end portions of the bias layer.

In claim 21: - applying a developer to the resist undercoat for removing a portion of the resist undercoat such that opposite ends of the resist undercoat along a plane parallel m an upper surface of the wafer stack are closer together than opposite ends of the second layer of resist; removing the protective layer.

Accordingly, claims 1-15 and 21-32 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tai Van Nguyen whose telephone number is 571-272-4567. The examiner can normally be reached on M-F (7:30 A.M - 4:30 P.M).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/617,908

Art Unit: 3729

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TN. January 2, 2007

A. DEXTER TUGBANG